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OSA 0041-69 ✓

9 January 1969

MEMORANDUM FOR: Deputy Director of Special Activities

SUBJECT : Sea Survival

1. Despite the many significant developments in pilots' protective systems and equipment in recent years, very little has been done to increase water survivability, particularly when water and air temperatures are less than tropic.

2. I feel there are two possible techniques which, if developed, could significantly increase survival time in cold water. One involves providing additional heat to the body, the other, conserving the body's own heat.

3. The first would combine a "dry type" antiexposure suit, such as the "poopy suit" now in use by the armed forces, with a chemical heat source and, if necessary, a liquid heat circulating system.

4. The second suggestion is to utilize the "foam in place" technique, developed largely by the boating industry, to inflate the full pressure suit with flexible insulating foam such as that used in skin divers' wet suits. Small amounts of a liquid resinous component and a catalyst produce a large volume of foam.

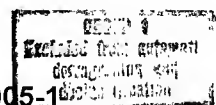
5. I'll be glad to discuss these with [REDACTED] people or David Clark representatives if you feel I could be of service.

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